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(54) **ZN ALLOY FOR HOT DIPPING HAVING HIGH
CORROSION RESISTANCE, HIGH WORKABILITY,
AND HIGH HEAT RESISTANCE**

(57) Abstract:

PURPOSE: To obtain the titled Zn alloy causing neither peeling nor cracking in plating layers, by specifying the weight ratio of Ti or Zr to Al, by specifying each content of Ti or/and Zr, Al, and one or more elements among Mn, Ni, Co, and Fe, and by incorporating prescribed amounts of $TiAl_3$ or/and $ZrAl_3$.

CONSTITUTION: The titled Zr alloy has a composition

containing, under the condition where the weight ratio of Ti or Zr to Al is 1/10W1/100, 0.01W1.0%, by weight, Ti or/and Zr, 0.15W25.0% Al, 0.01W0.8% of one or more elements among Mn, Ni, Co, and Fe, and further, if necessary, 0.01W0.5% Si or/and B and containing the following intermetallic compounds: 0.02W2.6% $TiAl_3$ or/and $ZrAl_3$. This Zn alloy especially by hot dipping provides a material excellent in resistance to heat and corrosion and free from peeling and cracking in plating layers even if subjected to bending.

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